(i) Printe	d Pages: 3 Roll No			
(ii) Questi	ons :9 Sub. Code: 0 5 5 0			
	Exam. Code: 0 0 6			
B.A./B.Sc. (General) 6 th Semester (2042) BOTANY Paper—A: Plant Physiology—II Time Allowed: Three Hours] [Maximum Marks: 36				
	ttempt five questions in all, including Question No. I			
	hich is compulsory and selecting one question from			
ea	ch Unit. Draw diagrams where necessary.			
I. (A) M	ultiple choice questions:			
(i)	The water-soluble photosynthetic pigment is:			
	(a) Chlorophyll a			
	(b) Xanthophyll			
	(c) Anthocyanin			
	(d) Chlorophyll b			
(ii	Oxidative phosphorylation usually refers to			
	(a) Anaerobic production of ATP			
	(b) Citric acid cycle production of ATP			
	(c) Alcoholic fermentation			
	(d) None of the above			

	(111)	One of the following is not all auxili.	
		(a) Indole-3-acetic acid	
		(b) Malic hydrazide	
		(c) Indole butyric acid	
		(d) Naphthalene acetic acid	
	(iv)	The formation of embryoids from the pollen gr in the tissue culture medium is due to	ains
		(a) Organogenesis	
		(b) Test tube culture	*
		(c) Double fertilization	
		(d) Cellular totipotency	4×1
	(B) Fill	in the blanks:	
	(v)	The first acceptor of CO ₂ in C4 plants is	
	(vi)	Complete the reaction $_$ + O_2 \rightarrow CO $_$ + Energy.	02 +
	(vii) Coconut milk contains a cytokinin called which promotes plant growth.	
	(vii	i) Synthetic seeds are produced by the encapsulation	on of
		somatic embryos with	4×1
		UNIT—I	
		photophosphorylation? Explain the process of c cyclic photophosphorylation.	yelic 7
I.		the source sink-relationship during transport of orgoe. Write the factors affecting translocation of orgo	

UNIT-II

	OTAL A	
IV.	Discuss in detail:	
	(a) Glycolysis	
	(b) Pentose phosphate pathway.	4+3
V.	Describe electron transport system in respiration and	show the
	sites of ATP synthesis in an electron chain in mito	chondria.
		7
	UNIT—III	
VI.	Write short notes on:	
	(a) Ethylene in fruit repining	
	(b) Auxin in apical dominance.	3+4
VII	What is plant movement? Explain different types	s of plant
	movement.	7
	UNIT—IV	eta.
VII	II. Write short notes on:	
	(a) Cultural technique in tissue culture	
	(b) Isolation of protoplast.	3+4
IX.	. (a) Write the role of plant tissue culture in biote	chnology.

5+2

(b) How are plant materials sterilized?